EXHIBIT A

CONFIDENTIAL

PATENT ASSIGNMENT

WHEREAS, The Greenspan Company, a company organized under the laws of Colorado and having a principal place of business at 200 Lois Circle, Louisville, CO 80027, owns the entire right, title and interest in and to the following Patents, including without limitation, the right to sue for past, present and future infringement of the Patents, and the right to collect and receive any damages, royalties, or settlements for such infringements and any and all causes of action relating to any of the inventions or discoveries described in the Patents.

Patent No.	<u>Title</u>
US 5,063,062	CLEANING COMPOSITIONS WITH ORANGE OIL
CA 2,026,304	CITRUS OIL COMPOSITIONS WITH USE THEREOF

WHEREAS, LP Matthews, LLC, a limited liability company organized under the laws of Virginia and having a principal place of business at 211 North Union Street, Suite 100, Alexandria, VA 22314 is desirous of acquiring the entire right, title and interest in and to the foregoing Patents, including without limitation, the right to sue for past, present and future infringement of the Patents, and the right to collect and receive any damages, royalties, or settlements for such infringements and any and all causes of action relating to any of the inventions or discoveries described in the Patents.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, The Greenspan Company hereby sells, assigns and transfers to LP Matthews, LLC the entire right, title and interest in and to the foregoing Patents, including without limitation, the right to sue for past, present and future infringement of the Patents, and the right to collect and receive any damages, royalties, or settlements for such infringements and any and all causes of action relating to any of the inventions or discoveries described in the Patents.

CONFIDENTIAL

IN WITNESS WHEREOF, the Parties below have executed this Agreement as of the dates set forth below.

The Greenspan Company

Name: Douglas H. Greenspan

Title: President

Date: 3-15-34

EXHIBIT B

REDACTED

EXHIBIT C

United States Patent [19]		[11]	Patent Number:	5,063,062	
Greenspan et al. [54] CLEANING COMPOSITIONS WITH ORANGE OIL		[45] Date of Patent: Nov. 5, 1991 man, The Citrus Industry, vol. 56, No. 11, Nov., 1975, pp. 23-25.		Nov. 5, 1991	
				No. 11, Nov., 1975,	
[75] Inventors: Douglas H. Greenspan, Louisville; Phillip A. Low, Littleton, both of Colo.		Primary Examiner—Thurman K. Page Assistant Examiner—James M. Spear			
[73]	[73] Assignees: D. Greenspan; W. Ingram, both of Louisville, Callf.		Attorney, Agent, or Firm-Timothy J. Martin		J. Martin
[21]	Appl. No.:	413,395	[57]	ABSTRACT	
[22]			A cleaning composition for cleaning the skin contains orange oil, a pharmaceutically acceptable moisturizer		
[51] Int. Cl. ⁵		and an emulsifying agent, Preferably the orange of accounts for between 5% and 60% by volume, and ifurther preferred that the composition contains 40% orange oil by volume. The moisturizer is either glyc	6 by volume, and it sition contains 40%		
[56]	[56] References Cited			vera, jojoba oil, safflower	
U.S. PATENT DOCUMENTS		thereof. The emulsifying agent preferably is oatmeal.			
	4,533,487 8/	1977 Juliano et al \$14/783 1985 Jones 252/173 1986 Dellutri 252/162	173 4.5 and 6.0, and the composition may be pr		may be packaged as
	от	HER PUBLICATIONS			
D. I	imonene as	a Degressing Agent Richard L. Cole-		12 Claims, No Drav	vings

5,063,062

1 CLEANING COMPOSITIONS WITH ORANGE OIL

FIELD OF THE INVENTION

The present invention generally relates to cleaning 5 compositions suitable for external application to human skin tissue in order to remove unwanted substances such as tar, caulking compounds, sealants, adhesives and the like. More specifically, however, the present invention is directed to a natural cleaning composition that utilizes only plant based ingredients. As such, the present invention is particularly adapted for cleaning non-water soluble products from the human skin in a safe, effective manner.

BACKGROUND OF THE INVENTION

A wide variety of cleaning compositions are known for external application to skin tissue in order to remove dirt and unwanted materials. Among these cleaning compounds are the various hard and liquid soaps which 20 may be used for cleaning human skin, especially the hands. However, numerous substances with which the hands may be soiled do not respond to ordinary soan compositions. Examples of substances that are difficult to remove include grease, tar, oils, ink, caulking materi- 25 als, adhesives, sealants, gums, cosmetics and other nonwater soluble products.

While some cleaning compositions have been developed for these materials, the typical cleaners are harsh and can damage the skin, especially after prolonged use. 30 Examples of these compounds include turpentine, acetone, toluene and other petroleum based products as well as ammonia based products. These products, though, often damage the skin and otherwise exhibit a high level of toxicity. Further, if inhaled during use, 35 these petroleum based products may cause respiratory damage. When absorbed through the skin, the petroleum based products can cause damage to the major organs of the body and can have a less serious side effect of drying and chaffing the skin where applied. Thus, it 40 should be appreciated that, although petroleum is a naturally occurring product, it is not toxilogically healthy for the human body. Accordingly, there have been substantial efforts which have been made to find suitable alternative substances for skin cleaning. While 45 some synthetically derived substances have been developed, many of these substances are medically suspect, and in some instances produce side effects making them unsuitable for use on a regular basis.

Orange oil, as a natural product derived from the rind 50 of oranges, has been recognized in the past to have some cleaning capabilities. Prior to the present invention, however, it is not believed that the suitability of orange oil in cleaning human skin was realized. Orange oil by itself is a skin irritant that can cause inflammation of the 55 tissues. When used by itself, fumes from orange oil may cause headaches, dizziness and other side effects. Accordingly, it has not been readily apparent that orange oil alone or in combination with other substances could prove effective in cleaning compounds otherwise diffi- 60 the preferred embodiment: cult to remove from the tissues of the skin. Rather, efforts in the past have been directed to the combination of orange oil with other cleaning solvents to produce floor cleaners, glass cleaners and the like.

From the foregoing, it should be appreciated that the 65 thrust of prior development of skin cleaners, other than soap, have been directed to petroleum based products and ammonia based products and the industry has ig-

nored the potential for orange oil as a constituent of skin cleaning compounds. Despite the long felt need for better cleaners, the suitability of orange oil has thus not been recognized, and the inventors of the subject invention have found success by examining this substance contrary to the direction of inquiry adopted by the industry at large.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a new and useful compound for cleaning the human skin. Another object of the present invention is to provide a skin cleaning compound suitable for cleaning nonwater soluble products such as grease, caulking, adhesives, scalants, tar, oils, ink and the like.

Yet another object of the present invention is to provide a skin cleaning composition which is non-toxic

It is a further object of the present invention is to provide a skin cleaning composition that is derived from natural vegetable and plant sources.

Still a further object of the present invention is to provide a skin cleaning composition that not only removes unwanted substances from the human skin but also acts to help clean and revitalize the human skin.

The present invention, then, provides a skin cleaning composition which is adapted for external use on human tissues. Broadly, this composition comprises a first ingredient being between five percent (5%) and sixty percent (60%) by volume of orange oil, a second ingredient being a pharmaceutically acceptable moisturizer for human skin and a third ingredient being an emulsifying agent. Preferably, the moisturizer is selected from a group consisting of: glycerin, aloe vera, jojoba oil, and safflower oil. Further, it is preferred that the emulsifying agent also function as an emollient. Preferably the emulsifying agent is a natural grain derivative, preferebly either oat gum or oatmeal. Further, it is preferred that the first, second, and third ingredients are selected and mixed in a ratio such that the resulting skin cleaning composition has a pH range of between 4.5 and 6.0 inclusively. To this end, a fourth ingredient in the form of a buffering compound may be added to the composi-

In the more specific composition according to the preferred embodiment, the cleaning composition comprises forty-five percent (45%) or less by volume of orange oil, forty-five percent (45%) or less by volume of the emulsifying agent and the pharmaceutically acceptable moisturizer. The preferred emulsifying agent in this composition is oatmeal, and the preferred moisturizer is a mixture of jojoba oil, aloe vera and glycerin mixed by volume of approximately two parts jojoba oil, two parts aloe vers and one part glycerin. It is further desired to use a small portion of safflower oil both as a moisturizer and to help form a stable emulsion.

These and other objects of the present invention will become more readily appreciated and understood from a consideration of the following detailed description of

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention is directed to a cleaning composition utilized on skin tissues and having, as its cleaning ingredient, the commercially available substance known as orange oil derived from the rinds of oranges. In this broad form, the composition includes orange oil,

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an emulsifying agent and a pharmaceutically acceptable moisturizer. In order to determine the preferred composition of the present invention, a series of samples having differing properties were evaluated to establish a desired range in pH and to establish the necessary proportion of orange oil to give suitable cleaning. These test samples are set forth below.

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In their investigation of cleaning compositions according to the present invention, Applicants first investigated several compositions which were mixtures of 10 orange oil, water, moisturizers and vitamin E. These samples were developed to test the cleaning properties of orange oil and to evaluate orange oil mixed with moisturizing agents. A test group of ten persons, male and female, were selected to subjectively evaluate the 15 results of these samples. Initially, three such samples were prepared, and the compositions are set forth as Samples I-III, as follows:

SAMPLE 1

Lagrédient	Valume Percent (Approximate)
Orange Oil	39
Water	33
Glycerin*	12
Aloe Vera*	12
Jojoba Oil*	ž
Vitamin E	ī

Total Mosturiters accounsed for approximately 21% by volume

SAMPLE II

Ingredient	Volume Percent (Approximate)	
Orange Oil	34.5	
Water	27.5	
Glycerin*	17	
Alge Vera*	14	35
Jojoba Oil*	35	
Vicemin E	33	

"Total Mosturizers accounted for approximately 11 5% by volume

SAMPLE III

Ingredient	Volume Percent (Approximate)
Orange Oil	37
Water	26
Glycerin*	14.75
Aloe Vera®	14.75
Jojoba Oil*	3.1
Vitamin E	4

Total Moisturgers accounted for approximately 11% by volume

Prior to presenting these samples to the test group, Applicants tested the relative acidity of the samples since it was believed desirable to avoid a composition that was either too acidic or too basic. The result of this acidity measurement, correlated to the Samples, is set 55 forth in Table 1 below:

TABLE 1

Sample	pH (Approximate)
1	4.5
11	5
111	4.7

In each of the cases of Samples I-III, the respective components were mixed and blended in an attempt to 65 5.5. form an emulsion. An initial problem was noted with each of these Samples, however, in that the emulsion separated, that is, "broke" after approximately one to

two days. Since it was fairly simple to re-blend the Samples, Samples I-III were submitted to the test group for evaluation. Generally, the results of the composition was excellent with each of Samples I-III readily removing polyurethene and silicone base caulking compounds, tars, grease, oil and arthesives; each of these industrial type substances are regarded as difficult to remove, from the human hands. All ten members of the test group reported comparable cleaning properties and reported that their hands were left soft after a two week period of using the compounds. Indeed, after two weeks of use, certain male members of the test group who had dry hands resulting from the use of other solvents noted substantial improvement in the texture and softness of their hands. No allergic reactions were reported by any members of the test group.

After determining that test Samples I-III performed adequately in cleaning the hands and in moisturizing the hands, it became necessary to determine whether the oil orange and moisturizer emulsion could be stabilized so that it would not break over a period of time. In order to determine if a natural ingredient could act as an emulsifying agent, the Applicants selected a grain base derivative as an emulsifying agent. To this end, Applicants tested oatmest gum and oatmest to act as the primary emulsifier. Accordingly, two more test samples, Samples IV and V were prepared according to the compositions set forth below:

SAMPLE IV

lagi	redicat	Volume Percent (Approximate)
Ora	nge Oil	42.75
Alo	e Vera"	7
Jojo	ha Oil*	3.5
Safi	lower Oil*	4
Oat	meal Gum	42.75

*Total Maistangers accounted for approximately 14 1% by volume

SAMPLE V

Ingredient	Volume Percent (Approximate)
Orange Oil	36.5
Aloe Vera	14
Jajoba Oil*	14.
Glycena*	7
Safflower Oil*	o s
Oatmeal	28

*Total Mossigriters accounted for approximately 35.5% by volume

It may be noted that, in Samples IV and V, vitamin E and water were both omitted from the composition However, it should be noted that both the oatmeal gum in Sample IV and the oatmeal in Sample V each contain a portion of water. In Sample IV, the oatmeal gum was prepared by boiling rolled oats in water and straining the resultant mass to remove the hulls. In Sample V. rolled oats were boiled in water and the resulting mass (containing approximately 50% water) was used to prepare the composition. Relatively equal parts of orange oil and oat derivatives were used and a small portion of safflower oil was included. Again, relative acidity was tested and it was found that Sample IV had a pH of approximately 5.0 while Sample V had a pH of

Samples IV and V were submitted to the test group to evaluate cleaning effectiveness and moisturizing ability. Further, observation of the two compositions were 5,063,062

made to determine whether or not the emulsions broke. The results of this study determined that the emulsion of Sample IV broke after approximately seven days while the emulsion according to Sample V did not separate over any observed duration of time (several months). The test group observed that the cleaning properties of Samples IV and V were almost, but not quite, as effective as the cleaning properties of Samples I-III, but that the cleaning effectiveness was estimated at approximately 90% of Samples I-III. With respect to Sample 10 IV, the test group reported that their hands did not roughen, but that the sample did not feel as comfortable when on the hands. With respect to Sample V, the test group reported that the emulsion both felt comfortable on the hands and left their hands soft after approximately five days of regular usage. In each case, the emulsions were able to clean all caulking materials and tars, including silicone and polyurethane based caulking compounds as well as oil and grease from the skin. Purther tests were conducted on compositions similar to Sample V were in the amount of orange oil was slightly increased while holding the amounts of the remaining ingredients constant until the emulsion broke. It was found that, with these compositions, the emulsion 25 broke when orange oil accounted for approximately

38% by volume of the composition. From the foregoing, Applicants determined that Sample V offered the best compromise among emulsion stability, cleaning effectiveness, and skin effect. There- 30 fore, utilizing Sample V as a reference, Applicants adjusted the amount of orange oil (ignoring whether the emulsion broke) to determine an effective pH range wherein the composition felt comfortable on the human hands. A first set of samples set forth below as Samples 35 VI-IX were prepared to be less acidic than Sample V. and a second set of test samples, set forth below as Samples X-XIII were tested for compositions having greater acidity than Sample V. Samples VI-IX were prepared by simply buffering Sample V with differing 40 amounts of sodium bicarbonate. The resulting samples were buffered to have pH values according to Table 2 as follows:

TABLE 2

Sam	ıple	pH (Approximate)	
Vī		90	
VII		# 0	
vn	1	7,0	
IX		6.0	

Each of Samples VI-IX were evaluated by the test group. Samples VI and VII were reported to immediately make the hands dry upon first application of the 55 respective composition and removal of the composition with water. With respect to Samples VIII and IX, the test group reported less drying than Samples VI and VII although more dryness of the hands was noted in tions lead Applicants to conclude that an acidity of at least ph 6.0 is desirable, that is, that the preferred composition should not be more basic than ph 6.0.

To evaluate test compositions for excess acidity, Applicants merely increased the amount of orange oil in 65 test Sample V while holding the amounts of the remaining ingredients constant to obtain desired acidity levels according to Table 3, below:

TABLE J	
pH (Approximately)	
2.5	
30	
3.5	
4.0	
	pH (Approximately) 2 S 3 O 3.5

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Test Sample X had a volume percent of approximately 80% orange oil, Sample IX had orange oil of approximately 70% by volume, Sample XII had orange oil of approximately 60% by volume, and Sample XIII had orange oil of approximately 50% by volume.

It had previously been found that orange oil alone exhibited excellent cleaning properties, but left the hands feeling too dry and too astringent. With respect to Samples X-XIII, in each case no emulsion formed. The test group reported that each of Samples X-XIII had excellent cleaning properties, but the emulsions felt too astringent on the hands even after limited use. Applicants accordingly concluded that it was desirable that the emulsified composition have a pH that is approximately 4.5. Thus, Applicants further concluded that the composition according to the preferred embodiment of the present invention should have a pH of between 4.5 and 6.0, inclusively.

As noted in the above examples, the emulsions according to Sample V broke at approximately 38% orange oil by volume. In order to evaluate cleaning properties as a function of percent volume of orange oil, additional samples were prepared wherein the weight percentages of the ingredients other than orange oil was held constant while the amount of orange oil was varied to provide differing volume percentages of orange oil. Accordingly, Samples XIV-XVII were prepared to have volume percents of orange oil approximately 5%, 10%, 15% and 25%, respectively. In each case, the emulsions were stable. These Samples XIV-XVII were given to the test group to subjectively evaluate cleaning effectiveness. With respect to Sample XIV, the test group reported that cleaning properties were substantially reduced; Sample XIV could not effectively clean tar or caulking compounds. Indeed, Sample XIV was 45 Only effective in removing cosmetics from the skin. Sample XV eventually was able to remove silicone caulking compounds but was unable to remove polyurethane caulkings or tar. With respect to Sample XVI, the test group reported about 50%-60% of the cleaning effectiveness of Sample V with no marked increase in benefits in skin softening. Sample XVII was reported to have approximately 80% of the cleaning effectiveness of Sample V in removing all of the tested materials, but again there was no report of skin enhancements over Sample V

From these tests, Applicants concluded that, with respect to cosmetics, a composition according to the present invention could have as little as 5% by volume of orange oil although it was preferable to have a cleancomparison to test Sample V. These empirical observa- 60 ing composition having at least 25% by volume of orange oil.

To determine whether the moisturizers had any effect on the composition or whether pH was the dominant skin effecting property, Applicants prepared yet another sample, Sample XVIII, wherein 100% orange oil was buffered with sodium bicarbonate so that it had a pH of 5.5. This Sample XVIII was tested and it was determined that it was exceptionally drying and astrin7

gent on the human hands. Indeed, Sample XVIII proved almost as drying and astringent as Sample X.

In order to increase the amount of orange oil, Applicants further tested a variation on Sample V wherein both the amount of orange oil and the amount of oat- 5 meal were increased while the amount of moisturizers was decreased. This Sample XIX, was prepared as follows:

SAMPLE XIX

Ingredient	Volume Percent (Approximate)
Orange Oil	40.5
Aloc Vera	1.75
Jajoba Oil*	7.75
Glyceria*	45
Safflower Oil*	Š
Oetmeal	39

*Total Moistensers accounted for 20 1% by volume

From Sample XIX, it was concluded that orange oil could be increased, along with a corresponding increase in an oat grain derivative, until approximately 45% by volume of orange oil was included in the composition. Any amount of orange oil in excess of this amount would result in the diminishment of moisturizers so as to negate the softening effect of the hand cleaning composition according to the preferred invention.

Other samples, set forth below as Samples XX-XXIII were prepared utilizing other materials. These samples are as follows:

SAMPLE XX

lagrodient	Volume Percent (Approximate)
Orange Oil	50
Olive Oil	25
Jojoba Oil	25 25
Baking Soda	Trace

SAMPLE XXI

 Ingredicus	Volume Percent (Approximate)
 Orange Oil	50
Glycerin	50

SAMPLE XXII

Ingredient	Volume Percent (Approximate)	
Orange Oil	50	_
Aloc Vera	50	

SAMPLE XXIII

Ingredient	Volume Percent (Approximate)	
Orange Oil	12.5	_
Vitamin E	87.5	

Sample XX was found to have a pH of approximately 8.5. While Sample XX was deemed effective in cleaning, there was some reduction of cleaning effectiveness over Sample V and the composition left a dryness when wiped off of the skin. Further, the emulsion broke almost immediately. With respect to Samples XXI and XXII, both samples left a sticky residue on the hands 65 but were approximately equal in cleaning effectiveness to Sample V. Sample XXI had a pH a little greater than 2.0 while Sample XXII had a pH of approximately 3.5.

It was thus observed that aloe vera had some buffering effect on the acidity of the orange oil. Each of Samples XXI and XXII were highly astringent and left the test groups hands dry after washing with water. With respect to Sample XXIII, again this sample proved effective in removing cosmetics, but the sample was not effect in removing heavier, industrial substances such as caulking compounds, adhesives, tars and the like. The

orange oil and Vitamin E, however, did mix without

10 separation and a resulting acidity of pH 5.0.

From the information derived form all of the aforementioned samples, Applicants determined that glycerin and safflower oil are both desirable in the preferred compositions. On one hand glycerin appears both to stabilize the emulsion and perform as a moisturizer while, on the other hand, safflower oil appears to act as an emulsion stabilizer, as an emulsifying agent and as a moisturizer.

According to the above, Applicants prefer the compositions set forth in Sample V and Sample XIX for use in cleaning unwanted materials from human skin. In order to test administration of the preferred composition, Applicants applied the compound directly to the skin as a liquid emulsion and removed the emulsion from the hands by washing with water. In addition, Applicants were successful in soaking towellets, formed of standard absorbent material such as paper, cloth and the like, in the liquid emulsion so that a towellet would become impregnanted with the cleaning composition. These towellets can be hermetically sealed in standard foil packages, as known in the industry, so that the user can simply remove from the skin any of the described unwanted materials with a pre-moistened towellet. This is particularly useful in situations where water is not readily available. Further, individualized packets of pre-moistened towellets are convenient for portability and on-the-job use.

From the foregoing, the inventors have concluded that a suitable skin cleaning composition can be prepared wherein the skin composition has a first ingredient of between 5% and 60% by volume of orange oil, a second ingredient being a pharmaceutical acceptable moisturizer for human skin and a third ingredient being an emulsifying agent. Preferably, the moisturizer is either one or more of a group of moisturizes selected from the following: glycerin, aloe vera, jojoba oil, safflower oil. However, other pharmaceutically acceptable moisturizers are within the scope of this invention as could be developed without undue experimentation by the ordinarily skilled chemist according to the teachings of the present invention. One example of such a moisturizer is glycerin stearate. These other compositions are thus intended, unless otherwise specifically limited, to be encompassed by the general phrase "moisturizer" both in this specification and in the appended claims. In any event, it is preferred that the resultant composition have a pH between 4.5 to 6.0 and can be so buffered if necessary by the utilization of aloe vera or a buffering agent, such as baking soda.

Accordingly, the present invention has been described with some degree of particularity directed to the preferred embodiment of the present invention. It should be appreciated, though, that the present invention is defined by the following claims construed in light of the prior art so that modifications or changes may be made to the preferred embodiment of the present inventions.

tion without departing from the inventive concepts contained herein.

We claim:

- 1. A skin cleaning composition adapted for external use on human tissues, comprising a first ingredient being 5 between five percent (5%) and sixty percent (60%) by volume of orange oil, a second ingredient being a pharmaceutically acceptable moisturizer for human skin and a third ingredient being an emulsifying agent in the form of an oat grain derivative product.
- 2. A skin cleaning composition according to claim 1 wherein said moisturizer is selected from a group consisting of: glycerin, aloe vera, jojoba oil, and safflower oil.
- 3. A skin cleaning composition according to claim 1 15 wherein said oat grain derivative product is one of oat gum and oatmeal
- 4. A skin cleaning composition according to claim 1 wherein said first, second and third ingredients are selected and mixed in a ratio such that the resulting skin 20 cleaning composition has a pH range of between 4.5 to 6.0, inclusively.
- 5. A skin cleaning composition according to claim 1 including as a fourth ingredient a buffering compound in a proportion such that the resulting composition is 25 wherein said mixture includes safflower oil. pH balanced within a range of 4.5 to 6.0, inclusively.

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- 6. A skin cleaning composition for external use on human tissues, comprising orange oil, a pharmaceutically acceptable moisturizer for human skin and an oat grain derivative product as an emulsifying agent, wherein said composition has a pH within a range of 4.5 to 6.0, inclusively.
- 7. A skin cleaning composition according to claim 5 including a buffering compound.
- 8. A skin cleaning composition according to claim 5 10 wherein said moisturizer is selected from a group consisting of: glycerin, aloe vers, jojoba oil, safflower oil and glycerol stearate.
 - 9. A cleaning composition for use on human skin comprising forty-five percent (45%) or less by volume of orange oil, forty-five percent (45%) or less by voltime of oatmest and a pharmaceutically acceptable moisturizer.
 - 10. A cleaning composition according to claim 8 wherein said moisturizer is a mixture of jojoba oil, aloc vera and glycerin.
 - 11. A cleaning composition according to claim 1 wherein said mixture includes by volume two parts jojoba oil, two parts aloe vera and one part glycerin.
 - 12. A cleaning composition according to claim 9

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EXHIBIT D

ASSIGNMENT OF PARMY APPLICATION

WHENEXS, Douglas H. Greenspan, 200 Lois Circle, Louisville, Colorado 80027 ("Greenspan") and Phillip A. Low, 7829 West Portland Avenue, Littleton, Colorado 80123 ("Low") have invented certain new and useful products entitled "Cleaning Compositions With Orange Oil" for which am application for United States patent was filed on September 27, 1989, Serial No. 07/413,395, and

WEEDERS, Phillip A. Low desires to relinquish all his right, interest and title in the Cleaning Composition's patent application.

MOW, THEREFORE, in consideration of the promise to pay the sum of Three Thousand Dollars (\$3,000.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, Low by these presents does sell, assign and transfer unto Greenspan and William J. Ingress ("Ingress") the full and exclusive right to the Cleaning Compositions invention in the United States and all countries foreign to the United States and the entire right, title and interest in and to any and all patent that the countries of the countries of the countries of the United States and the entire right, title and interest in and to any and all patent that the countries of the countr that may be granted therefor in the United States and all countries foreign to the United States.

MOW, THEREFORE, Low bereby authorizes and requests the Commissioner of Patents and Trademarks to issue patent to Greenspan and Ingram, as the assignees of the entire right, title, and interest in and to the same, for their sole use and benefit, to the full end of the term for which patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

our seal on the date set forth hereinafter

Date: July 12, 1990

STATE OF COLORADO

COUNTY OF THE HEALTH

Given under my band and seal of office this 12th day of

Man Halley Set 620

SCHARTAL STAT

My Commission empires:

PATENT AND TRADERAPK
OFFICE

BP - 7190

MS126 HMS92

EXHIBIT E

REDACTED

EXHIBIT F

WILDEN PUMP & ENGINEERING CO., Plaintiff, v. VERSA-MATIC TOOL, INC. and POWER PUMP, INC., Defendants

No. 91-1562 SVW (Sx)

UNITED STATES DISTRICT COURT FOR THE CENTRAL DISTRICT OF **CALIFORNIA**

1991 U.S. Dist. LEXIS 12316; 20 U.S.P.O.2D (BNA) 1788

July 29, 1991, Decided July 29, 1991, Filed

CASE SUMMARY:

PROCEDURAL POSTURE: Defendant filed a motion to dismiss plaitniff's action, which alleged patent infringement, for lack of personal jurisdiction.

OVERVIEW: Plaintiff brought action for alleged patent infringement. Defendant filed motion under Fed. R. Civ. P. 12(b)(2) to dismiss the action for lack of personal jurisdicton. The court denied the requested motion to dismiss. The court held htat exercise of jurisdiction in California would not be unreasonable considering that fact that both partes are small companies with rouhly equal resources and a roughly equal amount of discovery wil likely take place in both California and Pennsylvania.

OUTCOME: The court denied the judgment requested motion to dismiss for lack of personal jurisdiciton.

LexisNexis(R) Headnotes

Civil Procedure > Pleading & Practice > Service of **Process**

Patent Law > Jurisdiction & Review > Personal Jurisdiction & Venue > Process Service

[HN1] Federal Rule 4(e) provides that in the absence of a federal statute governing service of process, a federal court must look to the rules of the forum state for service upon defendants not residing in the forum state.

JUDGES: [*1]

Stephen V. Wilson, United States District Judge.

OPINIONBY:

WILSON

OPINION:

ORDER DENYING DEFENDANT'S MOTION TO **DISMISS** FOR LACK OF **PERSONAL** JURISDICTION

Page 1

Wilden Pump and Engineering Co., a California corporation ("Wilden"), brought this action for alleged infringement of its patent on a certain type of pump manufactured by the plaintiff. Defendant Versa-Matic Tool, Inc., a Pennsylvania corporation ("Versa-Matic"), now moves this court to dismiss the action under Rule 12(b)(2) for lack of personal jurisdiction.

BACKGROUND

Versa-Matic manufactures and sells all of its pumps from its facilities in Pennsylvania. In 1990, between one and three percent of Versa-Matic's annual sales have been to distributors in California, amounting to at least \$ 30,000. Versa-Matic has been selling to distributors in California for approximately five years. Versa-Matic fills purchase orders sent by its California distributors and ships the allegedly infringing pumps F.O.B. Pennsylvania, to California.

In addition, in 1987, two officers of Versa-Matic travelled to California and purchased a booth at a trade show in Los Angeles for the purpose of attracting distributors in the area. Versa-Matic also purchases advertising space [*2] in trade journals that circulate in California, and maintains a nationwide toll-free phone number for its customers' use.

DISCUSSION

The issue before the court is jurisdiction over Versa-Matic. [HN1] Federal Rule 4(e) provides that in the absence of a federal statute governing service of process, a federal court must look to the rules of the forum state for service upon defendants not residing in the forum state. Since federal patent law does not provide for a particular manner of service, the court looks to California's longarm statute, which provides for service and personal jurisdiction "on any basis not inconsistent with the Constitution of [California] or of the United States." Cal.C.C.P. § 410.10. The court must therefore look to the constraints of constitutional due process to determine if the assertion of personal jurisdiction is proper in this instance.

In International Shoe 326 U.S. 310, 316, 66 S.Ct. 154, 158, 90 L.Ed. 95 (1945), the Supreme Court held that jurisdiction over a non-resident defendant comports with due process if the defendant has certain minimum contacts with the forum state such that traditional notions of substantial [*3] justice and fair play are not offended.

Where the defendant's contacts with the forum state are continuous and substantial, the court has the power to hear a variety of claims against him; this is known as general jurisdiction. See Helicopteros Nacionales de Colombia v. Hall, 466 U.S. 408, 104 S.Ct. 1868, 80 L.Ed. 404 (1984). In view of the criteria advanced in Helicopteros, it is clear that the facts of this case do not support an assertion of general jurisdiction over Versa-Matic. Versa-Matic is not incorporated in California, has no offices or manufacturing facilities in California, is not licensed to do business in California, nor owns property in the state. If this court has personal jurisdiction over the defendant, it is on the basis of specific, not general jurisdiction, that is, the power to hear only certain types of claims against the defendant.

In order to determine whether specific jurisdiction exists, the Ninth Circuit, in Data Disc, Inc. v. Systems Tech. Assocs., Inc., 557 F.2d 1280, 1287 (9th Cir. 1977), advanced a three-pronged test. First, a defendant must do some act by which he purposely avails [*4] himself of the benefits of the forum state. Second, the cause of action must arise out of the defendant's forum-related activities. And, third, the exercise of jurisdiction must be reasonable and fair. See id.; see also Haisten v. Grass Valley Med. Reimbursement Fund, 784 F.2d 1392, 1397, (9th Cir. 1986); Shute v. Carnival Cruise Lines, 897 F.2d 377, 379 (9th Cir. 1990), rev'd on other grounds Carnival Cruise Lines v. Shute, U.S. , 111 S.Ct. 1522 (1991) (holding forum selection clause to be controlling and not reaching minimum contacts analysis).

Purposeful Availment

The Ninth Circuit has consistently held that, "a non-resident defendant's act of soliciting business in the forum state will generally be considered purposeful availment if that solicitation results in contract negotiations or the transaction of business." Sinatra v. National Enquirer, Inc., 854 F.2d 1191, 1195 (9th Cir. 1988); see Decker Coal Co. v. Commonwealth Edison Co., 805 F.2d 834, 840 (9th Cir. 1986).

The first prong of the Ninth Circuit's test is readily satisfied here. Versa-Matic solicited business [*5] in California by purchasing a trade-show booth, advertising in nationwide trade journals, and maintaining a nationwide toll-free number for its customers. Versa-Matic's solicitation resulted in the sale of pumps to California distributors.

The defendant points to the Supreme Court decision in Asahi Metal Indus. Co. v. Superior Court, 480 U.S. 102, 107 S.Ct. 1026, 94 L.Ed.2d 92 (1987), holding that jurisdiction is not proper over a corporation when it has merely an awareness that its products enter the forum state. These are not the facts here, however. Versa-Matic did not merely place its pumps into the stream of commerce. Rather, Versa-Matic deliberately sold and shipped its pumps to California distributors. Indeed, the defendant's argument was rejected by the Supreme Court in the very case upon which the defendant relies:

The forum State does not exceed its powers under the Due Process Clause if it asserts personal jurisdiction over a corporation that delivers its products into the stream of commerce with the expectation that they will be purchased by consumers in the forum State.

Asahi, supra, 480 U.S. at 109. [*6]

For these reasons the court finds that Versa-Matic, by virtue of its advertisement, solicitation, and sales to California distributors, has purposefully availed itself of the benefits of doing business in California.

Nexus Between the Action and the Defendant's Contacts

Once it is established that the defendant's actions constituted purposeful availment, the next issue is whether the cause of action arises out of the defendant's contacts with the forum state. The defendant argues that the cause of action does not arise out its activities in California because no act of alleged infringement occurred in the forum state.

Federal law provides that the unauthorized manufacture, use, or sale of a patented product is an act of infringement. See 35 U.S.C. § 271(a). It is clear that Versa-Matic's contacts with California were unrelated to either the manufacture or use of the accused pumps. Versa-Matic also contends vigorously that no sales of the accused pumps were made in California because the purchase orders for the pumps were transmitted by the California distributors to Pennsylvania, accepted there, and shipped F.O.B. Pennsylvania.

In view of the Supreme Court's treatment of [*7] the issue of minimum contacts, Versa-Matic's technical argument misses the point. "The Court long ago rejected the notion that personal jurisdiction might turn on 'me-

chanical tests'...." Burger King Corp v. Rudzewicz, 471 U.S. 462, 478, 105 S.Ct. 2174, 2185 (1985), quoting International Shoe, supra. The Court has consistently recognized the need for a "highly realistic approach" to personal jurisdiction. Id. In accordance with the Supreme Court's rejection of machanical tests, this court declines defendant's invitation to rely upon an examination of freight terms and other technical aspects of commercial law to decide a question of personal jurisdiction.

In another personal jurisdiction case involving F.O.B. designations, the Seventh Circuit eschewed a technical analysis, finding that it is necessary to look to the "economic and commercial realities of [the] case." Honeywell, Inc. v. Metz Apparatewerke, 509 F.2d 1137. 1143 (7th Cir. 1975). Looking to the commercial realities of this case, the court notes that Versa-Matic advertised and solicited sales of the accused pumps in California, [*8] and in fact sold them to a number of California distributors. The mere fact that these sales may, in some technical sense, be said to have occurred in Pennsylvania does not avert the conclusion that Wilden's cause of action arises out of Versa-Matic's sales-related activities in California. For jurisdictional purposes, the technical situs of a sale is simply not controlling. See Shute, supra, 897 F.2d at 382 ("the [Supreme] Court has held that the physical absence of the defendant and the transaction from the forum cannot defeat the exercise of jurisdiction").

Versa-Matic next argues that application of the Ninth Circuit's "but for" test will prevent the assertion of personal jurisdiction in this case. According to the test, if a cause of action would not have arisen but for the defendant's contacts with the forum state, then the cause of action is deemed to arise out of those contacts. See Cubbage v. Merchent, 744 F.2d 670 (9th Cir. 1984); see also Shute, supra, 897 F.2d at 385 (explaining origin of "but for" test in Cubbage). The defendant is indeed correct: it cannot be said that "but for" Versa-Matic's activities [*9] in California, Wilden's cause of action would not have arisen. This is so because a claim for patent infringement arises every time an infringing product is manufactured, used, or sold, even if no sales are made in California. The "but for" test, however, is simply inapplicable to a cause of action such as patent infringement that involves a multiple and not a discrete injury.

Cubbage involved a single medical malpractice injury. See *Cubbage, supra, 744 F.2d at 666.* Shute involved a single slip-and-fall injury. See *Shute, supra, 897 F.2d at 377.* For these kinds of discrete injuries, the "but for" test effectively screens out those cases where the cause of action is not brought about by the defendant's activities in the forum state. Patent infringement, on the other hand, creates a cause of action every time an infringing product is sold. Application of the "but for" test

in this context would yield an absurd result. Even if Versa-Matic sold 90% of its volume to California and 10% to other states, the "but for" test would still not be satisfied. As long as Versa-Matic sold pumps to at least two different states, in any proportion, the [*10] "butfor" test would operate to bar suit against Versa-Matic in any state except Pennsylvania. This bizarre result cannot be consistent with the Ninth Circuit's intended purpose in adopting the test in other contexts.

The patent infringement injury in this case is similar to the defamation injury found in Keeton v. Hustler Magazine, Inc., 465 U.S. 770, 104 S.Ct. 1473 (1984), in that defamation is committed wherever the offending publication is sold. In Keeton, the Supreme Court noted that although the bulk of the harm done to the plaintiff was outside of the forum state, "the victim of a libel, like the victim of any other tort, may choose to bring suit in any forum with which the defendant has certain minimum contacts. . . ." Id. at 780 (internal quotations omitted). In view of the similarity of patent and defamation injuries, the court concludes that Wilden, as the alleged victim of patent infringement, may choose to bring suit in any forum with which Versa-Matic has certain minimum contacts.

The purpose of requiring the plaintiff's cause of action to be related to the defendant's contacts in the forum state is to [*11] screen out those cases that have no connection to that state other than the plaintiff's residence. If a California resident were injured at the Versa-Matic plant in Pennsylvania and brought suit in California, it is clear that an assertion of personal jurisdiction would be improper. But this is not the case with which we are presented. There is a nexus between Wilden's patent infringement action and Versa-Matic's activities in California, namely, Versa-Matic's sales to California distributors. See Shute, supra, 897 F.2d at 385. Moreover, this connection is not defeated simply because these sales, in some technical sense, may not have occurred in California. The court looks to the realities of the situation presented here and concludes that Wilden's claim is sufficiently related to Versa-Matic's contacts with California. Reasonable and Fair

Once purposeful availment has been established, the forum's exercise of jurisdiction is presumptively reasonable. See *Burger King, supra, 471 U.S. at 476*. At this point a defendant must present a compelling case that the exercise of jurisdiction would, in fact, be unreasonable.

In view of the [*12] factors set forth in Federal Deposit Ins. Corp. v. British-American Ins. Co., Ltd., 828 F.2d 1439, 1442 (9th Cir. 1987), the court concludes that the defendant has not met its burden. Both parties are small companies with roughly equal resources, and a roughly equal amount of discovery will likely take place

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in both California and Pennsylvania. Further, California has an interest in adjudicating this matter, namely, the protection of its citizens from tortious activity, like patent infringement. Although the defendant would prefer to be in Pennsylvania, given modern advances in transportation and communication, the burden of litigating in California would not be oppressive. For these reasons,

the court finds that the exercise of jurisdiction in this case would not be unreasonable.

The court finds that the evidence supports assertion of personal jurisdiction. Defendant's motion to dismiss for lack of personal jurisdiction is, accordingly, DENIED.

IT IS SO ORDERED.